



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED  
MAR 16 2001  
TECH CENTER 1600/2900

In re application of: Hu et al.

Application Serial No.: 09/219,442

Group Art Unit: 1647

Filed: December 23, 1998

Examiner: Saoud, C.

For: Vascular Endothelial Growth Factor 2

Atty. Docket No.: PF112P2D1

#18  
DQJ  
3/27/01

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST/  
REVOCATION OF PRIOR POWER OF ATTORNEY**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Human Genome Sciences, Inc., organized and existing under the laws of the State of Delaware, having its principal place of business at 9410 Key West Avenue, Rockville, Maryland 20850, is assignee of record of the entire right, title and interest for the above-identified application by virtue of an assignment recorded in the U.S. Patent and Trademark Office on August 18, 1998, at Reel 9440, Frame 0794, in parent Application Serial No. 08/999,811, filed December 24, 1997, a copy of which is attached hereto as Exhibit 1.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The assignee hereby revokes all powers of attorney heretofore given in the above-captioned application and appoints as its attorneys and/or agents: James H. Davis, Registration No. 40,582; Kenley K. Hoover, Registration No. 40,302; Michele M. Wales, Registration No. 43,975; Jonathan L. Klein, Registration No. 41,119, Mark H. Hyman, Registration No. 46,789; and Joseph J. Kenny, Registration No. 43,710, with full power of substitution, association, and revocation, to prosecute said application and to transact all business in the United States Patent and Trademark Office connected therewith.

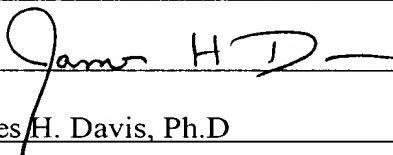
The assignee also requests that the correspondence address be changed to **Customer No. 22195**.

The undersigned, whose title is supplied below, is empowered to sign this document on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application captioned above or of any patent issuing thereon.

On behalf of Human Genome Sciences, Inc.

For: Human Genome Sciences, Inc

Signature: 

By: James H. Davis, Ph.D

Title: Senior Vice President and General Counsel

Date: 3/16/01

Enclosures  
MW/RL/lcc



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

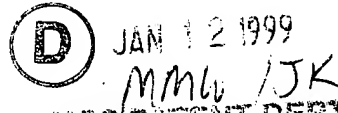
JANUARY 06, 1999

PTAS

HUMAN GENOME SCIENCES, INC.  
A. ANDERS BROOKES  
9410 KEY WEST AVENUE  
ROCKVILLE, MARYLAND 20850



\*100826188A\*



UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/18/1998

REEL/FRAME: 9440/0794  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
HU, JING-SHAN

DOC DATE: 07/24/1998

ASSIGNOR:  
ROSEN, CRAIG A.

DOC DATE: 08/17/1998

ASSIGNOR:  
CAO, LIANG

DOC DATE: 07/27/1998

ASSIGNEE:  
HUMAN GENOME SCIENCES, INC.  
9410 KEY WEST AVENUE  
ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 08999811  
PATENT NUMBER:

FILING DATE: 12/24/1997  
ISSUE DATE:

9440/0794 PAGE 2

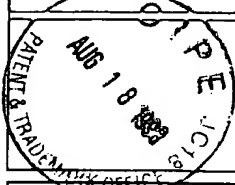
LAWAN FLETCHER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

8.18.98

## U.S. PATENT AND TRADEMARK OFFICE

BOX ASSIGNMENTS  
Case Docket No. PF112P2

09-14-1998

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

REC



IEET

100826188

To the Honorable Commissioner of Patents and Trademarks.  
Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Jing-Shan HU  
Craig A. ROSEN  
Liang CAO

Additional name(s) of conveying party(ies) attached?

Yes ☐ No ☒

## 3. Nature of conveyance

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_
Execution Date: July 24, 1998, August 17, 1998,  
and July 27, 1998, respectively

## 2. Name and address of receiving party(ies):

Name: **Human Genome Sciences, Inc.**  
Street Address **9410 Key West Avenue**  
City **Rockville, Maryland 20850**Additional name(s) of conveying  
party(ies) attached?Yes ☐ No ☒4. Title **Vascular Endothelial Growth Factor 2**

## 5. Application number (s) or patent numbers (s)

If this document is being filed together with a new  
application, the execution date of the application isA. Patent Application No. (s):  
**08/999,811**B. Patent No.  
Additional numbers attached?  
Yes ☐ No ☒

## 6. Name and address of party to whom correspondence concerning documents should be mailed:

**Human Genome Sciences, Inc.**  
**9410 Key West Avenue**  
**Rockville, Maryland 20850**  
**Telephone: 301-309-8504 Facsimile: 301-309-8439**

## 7. Total of applications and patents involved

1

## 8. Total Fee (37 CFR 3.41) ..... \$40.00

☐ Enclosed (By check in total of filing fee and Assignment Recordation Fee)  
☒ Authorized to be charged to Deposit Account

## 9. Deposit Account No.

**08-3425**(Attached duplicated copy of this page if paying by deposit  
account)10. If any additional fees due in connection with the recordation of this Assignment, please charge the same  
to Deposit No. **08-3425**

## 11. Statement and Signature

The best of my knowledge and belief, the foregoing information is true and correct and any attached  
copy is a true copy of the original document.

A. Anders Brookes

Name of Person Signing  
36,373

Signature

8/18/98

Date

Registration No.

Total number of pages including cover sheet, attachment, and documents: 4

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Jing-Shan HU, Craig A. ROSEN, and Liang CAO, hereby sells, assigns, and transfers to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

### Vascular Endothelial Growth Factor 2


for which application for United States Letters Patent was filed on December 24, 1997, and assigned Serial No. 08/999,811, in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:  Date: 7/24/98  
Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Craig A. Rosen

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Liang Cao

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Jing-Shan HU, Craig A. ROSEN, and Liang CAO, hereby sells, assigns, and transfers to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

### Vascular Endothelial Growth Factor 2

for which application for United States Letters Patent was filed on December 24, 1997, and assigned Serial No. 08/999,811, in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: 8/17/98

Craig A. Rosen

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Liang Cao

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Jing-Shan HU, Craig A. ROSEN, and Liang CAO, hereby sells, assigns, and transfers to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

### Vascular Endothelial Growth Factor 2

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Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Craig A. Rosen

Inventor's Signature: \_\_\_\_\_ Date: July 27, 1998  
Liang Cao